

SS1540~SS15100 15.0Amp Surface Mount Schottky Barrier Rectifiers

Features

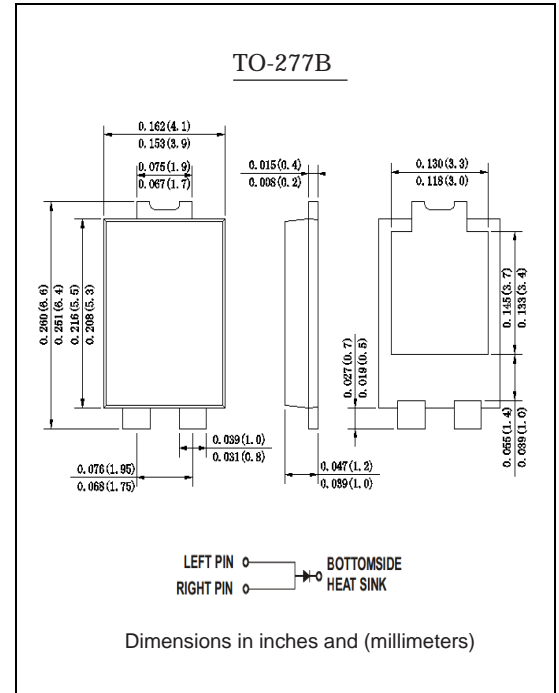
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250°C/10 seconds at terminals

Mechanical Data

Case: JEDEC TO-277B molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Mounting Position: Any



Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SS1540	SS1545	SS1550	SS1560	SS15100	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	45	50	60	100	VOLTS
Maximum RMS voltage	V_{RMS}	28	32	35	42	70	VOLTS
Maximum DC blocking voltage	V_{DC}	40	45	50	60	100	VOLTS
Maximum average forward rectified current at $T_L=110^\circ\text{C}$	$I_{(AV)}$	15.0					Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	250					Amps
Maximum instantaneous forward voltage at 15.0A	V_F	$T_A=25^\circ\text{C}$ 0.53		0.65		0.75	Volts
		$T_A=100^\circ\text{C}$ 0.50		0.58		0.64	
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_A=25^\circ\text{C}$ 0.5					mA
		$T_A=100^\circ\text{C}$ 20.0					
Typical thermal resistance (NOTE 1)	$R_{\theta JA}$	55					C/W
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150					°C

Note: 1.Polyimide PCB ,2oz.Copper Cathode pad dimensions 18.8mmx14.4mm.Anod pad dimensions 5.6mmx14.4mm